Space and Naval Warfare Systems Command
Systems Center Pacific
Fall NDIA C4I Industry Day

29 October 2014

Presented by:

Ms. Carmela Keeney

SSC Pacific Executive Director

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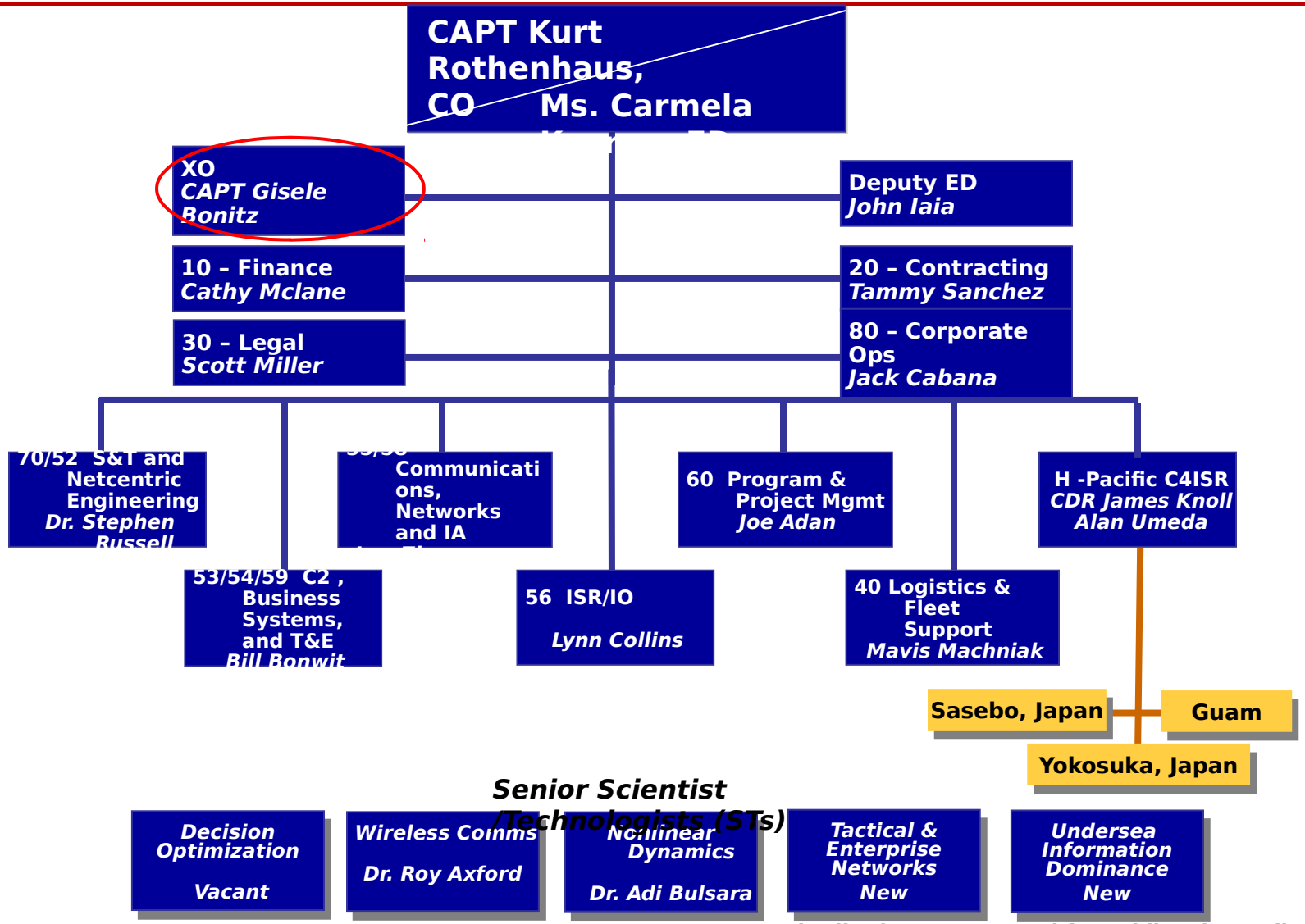
SSC Pacific Mission

From Concept to Capability…

…via research, development, delivery, and support of integrated C4ISR, cyber, and space systems across all warfighting domains

SSC Pacific: Organization



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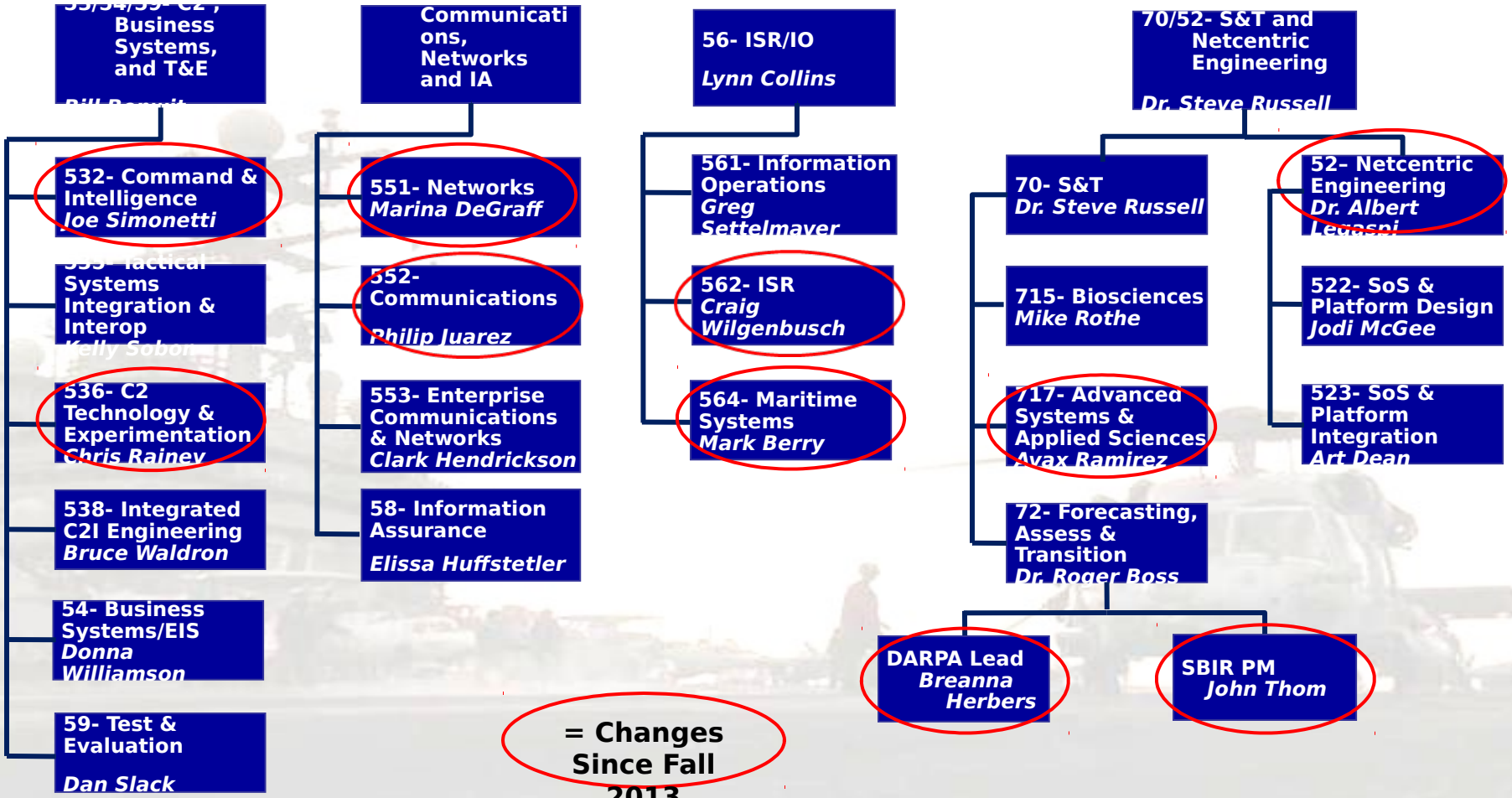
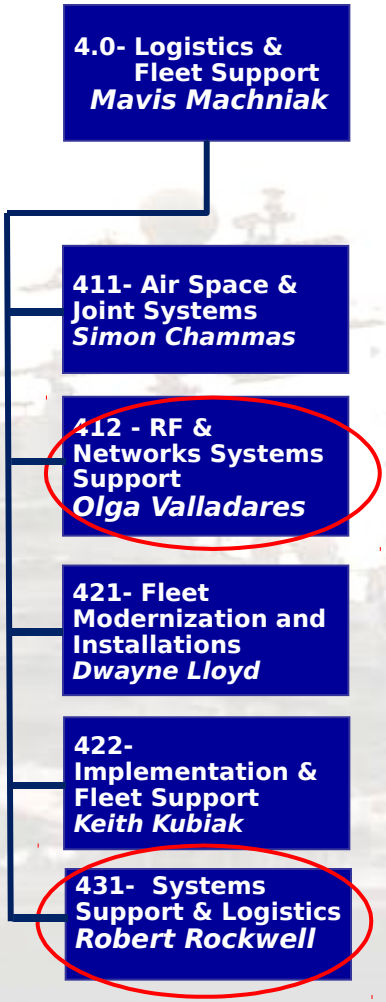
SSC Pacific: Organization



SSC Pacific: Organization



unlimited.

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Business Portfolio Managers

Deputy Executive Director
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Discovery and Invention (D&I)
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Transport and Computing Infrastructure (TCI)
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Battlespace Awareness (BA)
Bryan Tollefson
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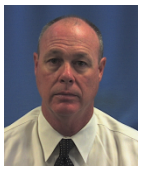
Decision Superiority (DS)
Joe Summa
joe.summa@navy.mil



Business and Force Support (BFS)
Linda Kusumoto
linda.kusumoto@navy.mil

Integrated Cyber Operations (ICO)
Joshua Caplan
josh.caplan@navy.mil

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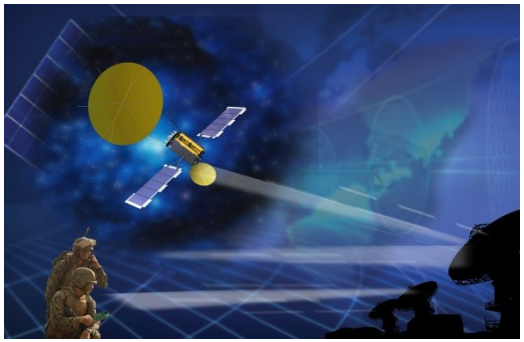
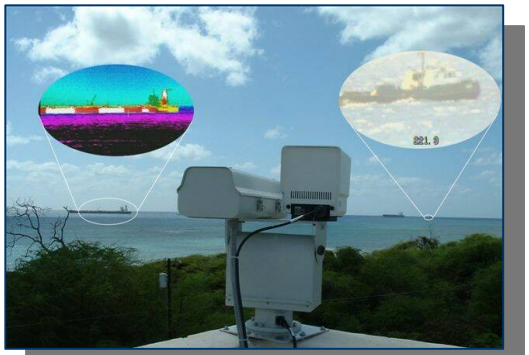
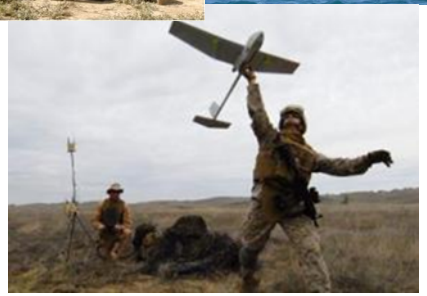
Communities of Interest



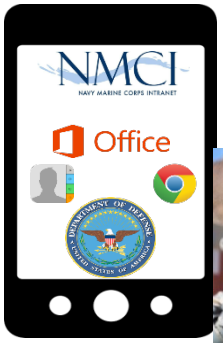
Space



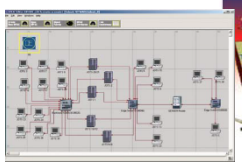
AT/FP

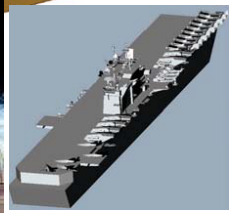


USMC



Mobility





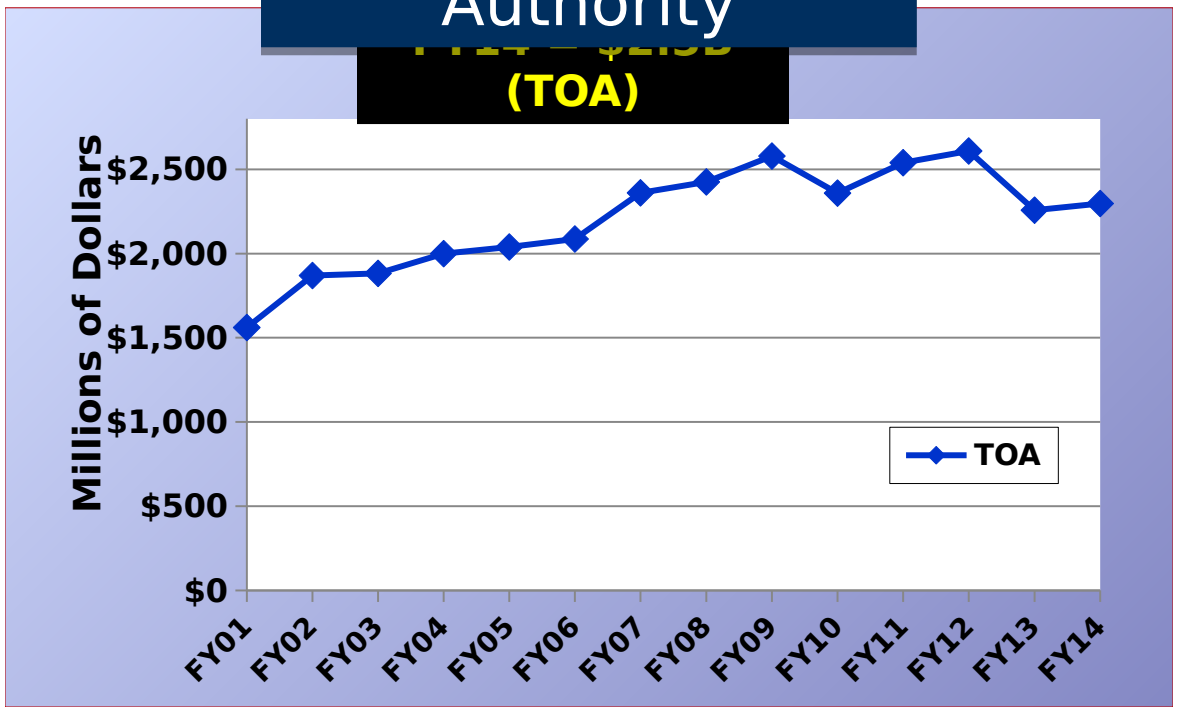
Modeling and

UxV's

COI's cut across portfolios and competencies for common capabilities to support our customers

Customer Funding

Total Obligation Authority



- Work must be within our mission
- Naval priorities addressed

Top 3 Appropriations

- RDT&E $723.9M
- O&M $656.3M
- Procurement $518.3M

Top 3 Customers

- SPAWAR HQ/PEOs
- NAVSEA HQ/PEOs
- US Air Force
- DARPA

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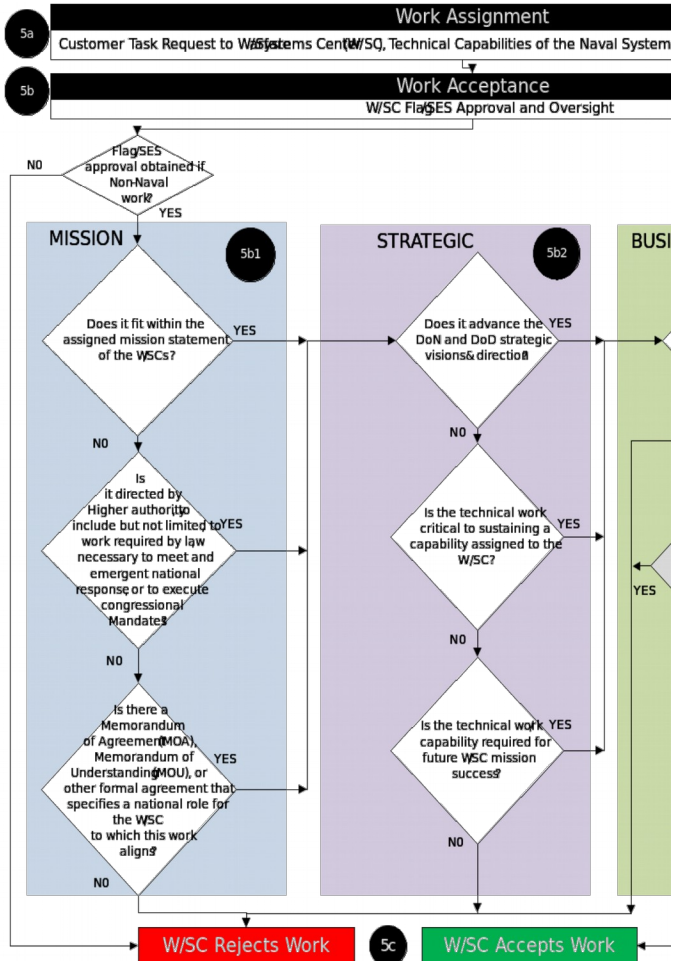
Work Acceptance & Non-Naval Work


5a
Work Assignment
Customer Task Request to W/SC, Technical Capabilities of the Naval System
5b
Work Acceptance
W/SC Flag/SES Approval and Oversight
Flag/SES approval obtained if Non-Naval work?
NO
YES
MISSION
5b1
Does it fit within the assigned mission statement of the W/SCs?
YES
NO
Is it directed by Higher authority to include but not limited to work required by law necessary to meet and emergent national response or to execute congressional Mandates?
YES
NO
Is there a Memorandum of Agreement (MOA), Memorandum of Understanding (MOU), or other formal agreement that specifies a national role for the W/SC to which this work aligns?
YES
NO
STRATEGIC
5b2
Does it advance the DoN and DoD strategic visions & direction?
YES
NO
Is the technical work critical to sustaining a capability assigned to the W/SC?
YES
NO
Is the technical work capability required for future W/SC mission success?
YES
NO
BUSI
YES
W/SC Rejects Work
5c
W/SC Accepts Work

Non-Naval Work as a % of Reimbursable Funds

FY14: 75% Naval 25% Non-Naval

- **Non-Naval work promotes joint/theatre interoperability, while adhering to mission alignment, advancing technical capability for the warfighter and technical competency for the workforce.**

- **SPAWAR Systems Center SES Executive Director reviews and approves all Non-Naval work.**

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Non-Naval Work Execution under Overarching Memorandum Of Agreements (OMOAs)

- **OMOAs are high-level guidance on non-Naval work acceptance with 9 year duration**
  - Signed by Echelon I ASN(RDA) with non-Naval Echelon I counterpart
  - Echelon III Agreements will become annexes to the OMOA for that sponsor's organization
  - DASN(RDT&E) prioritized the order of OMOA development, for staffing and signature at the Echelon I level
  - 5 OMOA's applied across the NLCCG account for approximately 80% of current Non-Naval work. Status of these OMOA's:
    - DARPA : signed 21 July 14
    - DHS : staffed, in final legal review
    - USAF : in staffing at AF HQ
    - USA : drafted
    - OSD : drafted

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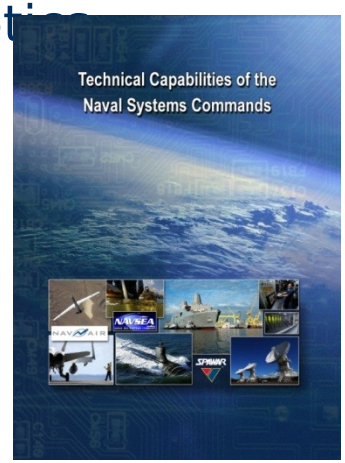
SSC Technical Capabilities

- Business Systems / Enterprise Information Systems
- Command and Control
- Communication Systems
- Cyber Operations
- C4ISR for Autonomous Systems and Robotics
- Enterprise and Net-Centric Systems
- Space Systems
- Test Engineering
- Networks
- Physical Security and AT/FP Systems
- Information Assurance & Cyber Security
- Intelligence, Surveillance & Reconnaissance and Information Operations
- Fleet Systems Engineering, Installations, Logistics, and Fleet Support
- Science and Technology (S&T), Research and Applied Sciences, S&T Forecasting Assessment & Transition

Technical Capabilities / Competencies Health Assessment



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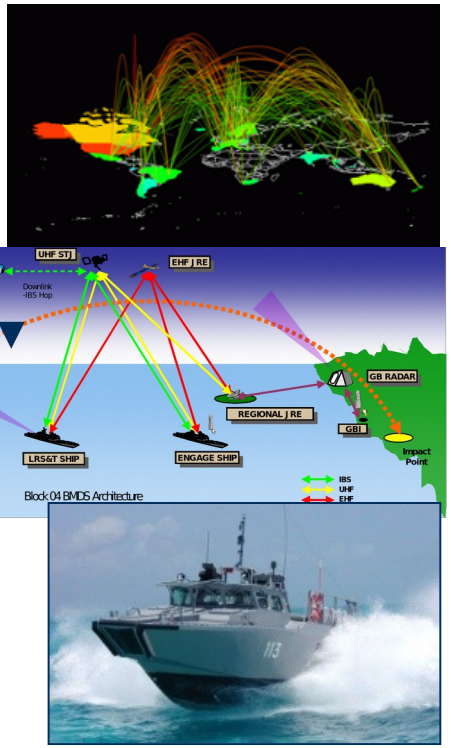
Focus Areas

- C4ISR Resilience in a maritime environment
- Electromagnetic Maneuver Warfare
- Integrated Fires
- Ubiquitous and networked computing environment
  - Mobility
  - The Internet of Things
- Cloud computing in a maritime environment
- Counter Anti-access & Area Denial (A2/AD)
- C4ISR unmanned systems and autonomy
- Lead Systems Engineer



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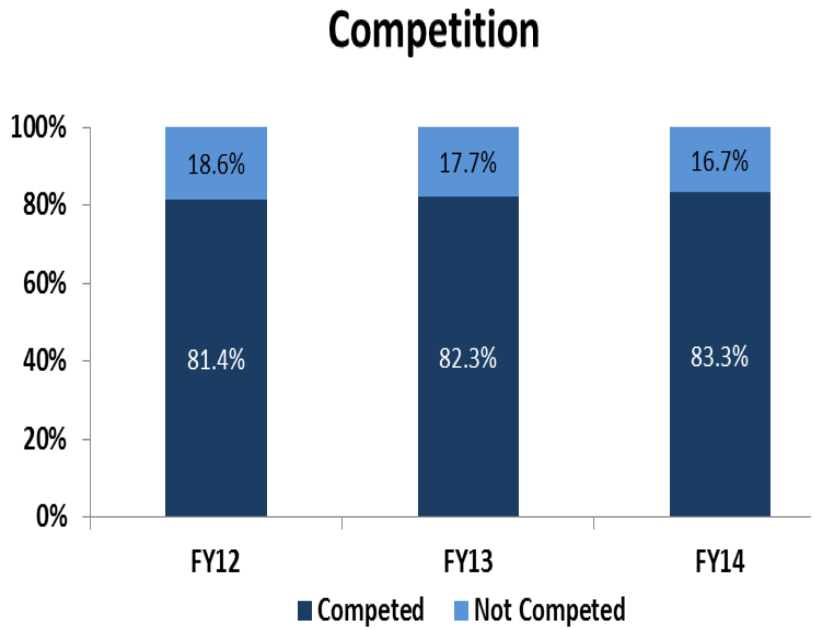
Contracts: Competition & Small Business



Total Contracted in FY14 = $886.9M

FY14 Small Business

SSC-PAC	FY14 Goal	Achieved	Dollars
Small Business	26.00%	25.87%	$225,325,708
Small Disadvantaged Business	6.00%	6.95%	$60,527,830
8(a) Procedure	n/a	2.79%	$24,304,594
Veteran Owned Small Business	n/a	5.43%	$47,268,200
Service Disabled Veteran Owned Small Business	1.50%	2.64%	$22,957,812
Women Owned Small Business	3.50%	4.23%	$36,801,814
Certified HUBZone Small Business	0.50%	1.31%	$11,381,416

Contracting Opportunities

- Center-wide Cyber contract will be re-competed
  - Full and open competition
  - Looking at opportunities for small business set-asides
- Network Integration Engineering Facility Support Contract will be re-competed
  - Small business set-aside
- Network Engineering Services Information Systems & Network Technology Program will be re-competed
  - Full and open competition
- Tactical Data Networks: In-Service Engineering Agent (ISEA) Support Contract
  - Small business set-aside
- Virtual Warehouse
  - Single Award, Firm Fixed Price IDIQ

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In the news

San Diego mayor visits SSC Pacific for hands-on demonstration

San Diego Mayor Faulconer experienced three-dimensional mapping with the guidance of SSC Pacific engineer Stephen Cox.

San Diego Mayor Kevin Faulconer recently visited the Old Town Campus facilities and experienced some of SSC Pacific's research, development, technology and engineering projects. The visit included SSC Pacific's Reverse Engineering Science and Technology for Obsolescence, Repair and Evaluation Lab, where he tried out three-dimensional mapping technology.

"The work you do is important for our city," Faulconer said. "When you're successful, we're successful. It gives us a competitive edge. Everything you're doing is important to our innovation and economy."

Science and technology innovations

Commercial technology adapted for naval applications

SSC Pacific and the Chief of Naval Operations' Rapid Innovation Cell are collaborating to identify naval-appropriate applications for Google Glass Explorer, a wearable technology with an optical, head-mounted display, with which users can communicate with the Internet via voice commands.

The Maintenance Card application allows the crew hands-free access to maintenance card information, manuals, how-to videos, checklists, photographic documentation, and real-time advice.

SSC Pacific's Dr. Joshua Kvavle applies new application for Google Glass.

The Situation Updater application provides the operator necessary information, such as weather, depth charts, mission guidance, and off-ship messages.

Interactions with Sailors from the *USS Benfold* were key to demonstrating the device's capability in the operational context of the warfighter's mission.

Supporting the joint forces

Providing enhanced maritime domain awareness for the warfighter

SSC Pacific developer Sparta Cheung and Program Manager John Stastny review maritime data analysis tools for an upcoming test and evaluation event.

SSC Pacific's International Collaborative Development for Enhanced Maritime Domain Awareness project, in collaboration with U.S. coalition partners, is focused on

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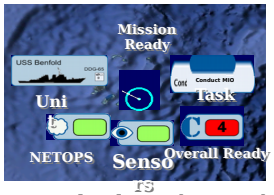
Capabilities – Across the Full Life Cycle

SPAWAR Systems Center PACIFIC

Future | **Tomorrow** | **Today**

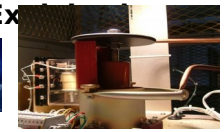
Basic and Applied Research | **Engineering, Development, Test and Evaluation** | **Installation and Support**



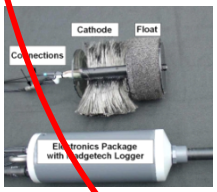
Maritime Tactical C2 (MTC2) with C2 Rapid Protoyping Continuum (C2RPC) Capability

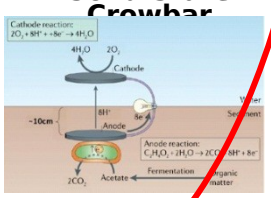
Application of Cryogenic Cooling

Google Glass



Solid State Crowbar





Microbial Fuel Cells: Free Power from the Mud!

C4ISR for Unmanned Vehicl

Consolidated Afloat Networks Enterprise Services (CANES)

Ballistic Missile Defense System (BMDS)

Integrated Cyber Operations

Mobile User Objective System (MUOS)

Production, Installation and In-Service Supp

Restoration and Repair

In-Service Support

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Dr. Stephen Russell
SPAWAR Chief Technology Officer
National Competency Lead for Science and Technology
SSC Pacific Department Head

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